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Frequently Asked Questions

How to take tailstock apart on NOVA 2024 lathe

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Safe practices should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on service@teknatool.com

Date Amended

The tailstock components will become very difficult to turn when it is being used over a long period of time due to lack of lubrication. To avoid the tailstock becoming tight, regular maintenance and lubrication of the components are necessary.

Tools Required:


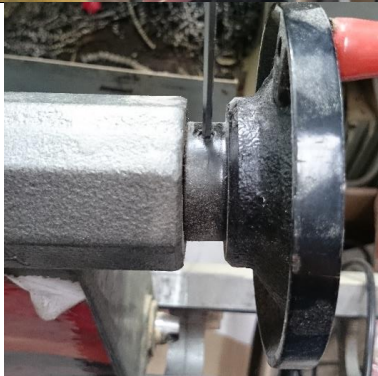
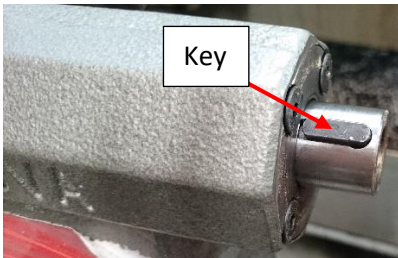

1 x 3mm Allen wrench

1 x 4mm Allen wrench

1 x 5mm Allen wrench

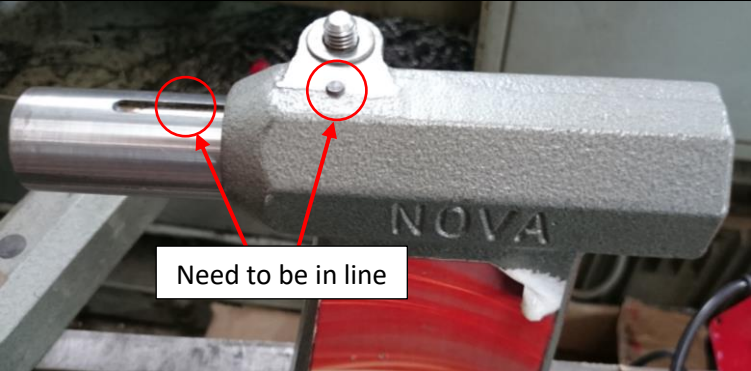




1 x 8mm Allen wrench

To take the quill out:




Step No.	Description	Image
1.	<p>Extend the quill out until it gets unscrewed from the quill shaft.</p> <p>Pull the quill out from the tailstock by hand.</p> <p>Note: The feeling of the handle will become lighter when the quill gets unscrewed from the shaft.</p>	
2.	<p>Take the set screw out from the handle.</p> <p>Use the 3mm Allen wrench</p>	
3.	<p>Remove the handle and expose the key and the 4 countersink hex screws which are holding the tailstock thrust plate in place.</p> <p>Remove all the screws and the key to remove the tailstock thrust plate.</p>	  <p><i>Figure 1: View of Key</i></p> <p><i>Figure 2: View of tailstock thrust plate</i></p>

	<p>Use 4mm Allen wrench to remove the screws.</p> <p>This will detach both quill shaft and tailstock thrust plate.</p> <p>*Quill lock lever will pull straight out when the quill is removed*</p>	
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Reassembling of quill:

Step No.	Description	Image
1.	<p>Put the quill back. Make sure to align the slot with the dot on top.</p> <p>Note: Replace the quill lock lever back in first if it has been taken out and make sure to align the curvature inside (shown in image)</p>	 <p>Need to be in line</p> <p>Looking inside the tailstock from the quill side</p> <div>   </div> <p>Figure 3: When curvature is aligned Figure 4: When curvature is not aligned</p>
2.	Screw the quill shaft back in and screw it onto the quill.	
3.	<p>Screw the quill thrust plate back on</p> <p>Note: Before putting the plate back on, make sure that the quill shaft is flush with the tailstock body (As shown in image)</p>	 <p>These parts need to be flush with each other before plate</p>
4.	Place the key back onto the quill shaft and put the handle back on.	NO IMAGE

To take out the tailstock lock cam shaft:

Step No.	Description	Image
1.	<p>Slide off the tailstock from the lathe bed and unscrew the countersink hex screw with the 8mm Allen wrench to take off the lock plate.</p> <p>Note: Alternatively, the lock plate can be taken off first and the tailstock can be lifted directly out of the lathe.</p>	
2.	<p>Unscrew the button hex screws with the 5mm Allen wrench to remove the tailstock alignment plate.</p> <p>This will expose the hex socket hex screw which is locking the cam shaft in place.</p> <p>Unscrew the hex set screw to release the cam shaft.</p>	
3.	<p>By using a suitable sized rod, tap the cam shaft out from the quill side along with the tailstock cam shaft sleeve.</p> <p>A rod with 17mm diameter (or smaller) is suitable for this.</p>	

To reassemble the tailstock cam shaft, commence these procedures in reverse. If you find difficulties in combining any of the parts, try lubricating it first.